

RAW SEQUENCE LISTING

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Application Serial Number: 10/573,262
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DATE: 02/23/2007

PATENT APPLICATION: US/10/573,262

TIME: 11:59:27

Input Set : A:\2007-02-19 4600-0119PUS1.ST25.txt

Output Set: N:\CRF4\02232007\J573262.raw

3 <110> APPLICANT: KAZUSA DNA RESEARCH INSTITUTE FOUNDATION; Institute for Biomedical
 4 Research and Innovation
 5 Hisashi Koga et al.
 7 <120> TITLE OF INVENTION: NOVEL PLEXIN POLYPEPTIDE, DNA ENCODING THE SAME AND USE
 THEREOF
 9 <130> FILE REFERENCE: 4600-0119PUS1
 11 <140> CURRENT APPLICATION NUMBER: US 10/573,262
 12 <141> CURRENT FILING DATE: 2006-03-23
 14 <150> PRIOR APPLICATION NUMBER: JP 2003-371040
 15 <151> PRIOR FILING DATE: 2003-10-30
 17 <150> PRIOR APPLICATION NUMBER: JP 2004-229871
 18 <151> PRIOR FILING DATE: 2004-08-05
 20 <160> NUMBER OF SEQ ID NOS: 24
 22 <170> SOFTWARE: PatentIn version 3.1
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 1746
 26 <212> TYPE: PRT
 27 <213> ORGANISM: mouse
 29 <400> SEQUENCE: 1
 31 Ser Met Leu Asn Val Ala Ala Asn His Pro Asn Ala Ser Thr Val Gly
 32 1 5 10 15
 35 Leu Val Leu Pro Pro Thr Ser Gly Thr Gly Gly Ser Arg Leu Leu Val
 36 20 25 30
 39 Gly Ala Thr Tyr Thr Gly Phe Gly Ser Ala Phe Phe Pro Arg Asn Arg
 40 35 40 45
 43 Ser Leu Glu Asp His Arg Phe Glu Asn Thr Pro Glu Ile Ala Ile Arg
 44 50 55 60
 47 Ser Leu Asp Ala Arg Gly Asp Leu Ala Lys Leu Phe Thr Phe Asp Leu
 48 65 70 75 80
 51 Asn Pro Ser Asp Asp Asn Ile Leu Lys Ile Lys Gln Gly Ala Lys Glu
 52 85 90 95
 55 Gln His Lys Leu Gly Phe Val Arg Ala Phe Leu His Pro Ala Val Pro
 56 100 105 110
 59 Pro His Ser Ala Gln Pro Tyr Ala Tyr Leu Ala Leu Asn Ser Glu Ala
 60 115 120 125
 63 Arg Ala Gly Asp Lys Asp Ser Gln Ala Arg Ser Leu Leu Ala Arg Ile
 64 130 135 140
 67 Cys Leu Pro Arg Gly Ala Gly Gly Asp Ala Lys Lys Leu Thr Glu Ser
 68 145 150 155 160
 71 Tyr Ile Gln Leu Gly Leu Gln Cys Ala Gly Gly Ala Gly Arg Gly Asp
 72 165 170 175
 75 Leu Tyr Ser Arg Leu Val Ser Val Phe Pro Ala Arg Glu Gln Phe Phe
 76 180 185 190
 79 Ala Val Phe Glu Arg Pro Gln Gly Ala Pro Gly Ala Arg Asn Ala Pro

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80          195          200          205
83 Ala Ala Leu Cys Ala Phe Arg Phe Asp Asp Val Gln Ala Ala Ile Arg
84          210          215          220
87 Ala Ala Arg Thr Ala Cys Phe Val Glu Pro Ala Pro Asp Val Val Ala
88 225          230          235          240
91 Val Leu Asp Ser Val Val Gln Gly Thr Gly Pro Ala Cys Glu Ser Lys
92          245          250          255
95 Arg Asn Ile Gln Leu Gln Pro Glu Gln Leu Asp Cys Gly Ala Ala His
96          260          265          270
99 Leu Gln His Pro Leu Thr Ile Leu Gln Pro Leu Arg Ala Ser Pro Val
100          275          280          285
103 Phe Arg Ala Pro Gly Leu Thr Ala Val Ala Val Ala Ser Ala Asn Asn
104          290          295          300
107 Tyr Thr Ala Val Phe Leu Gly Thr Ala Thr Gly Arg Leu Leu Lys Ile
108 305          310          315          320
111 Ser Leu Asn Glu Ser Met Gln Val Val Ser Arg Arg Val Leu Thr Val
112          325          330          335
115 Ala Tyr Gly Glu Pro Val His His Val Met Gln Phe Asp Pro Met Asp
116          340          345          350
119 Pro Gly Tyr Leu Tyr Leu Met Thr Ser His Gln Met Ala Arg Val Lys
120          355          360          365
123 Val Ala Ala Cys Glu Val His Ser Thr Cys Gly Asp Cys Val Gly Ala
124          370          375          380
127 Ala Asp Ala Tyr Cys Gly Trp Cys Thr Leu Glu Thr Arg Cys Thr Leu
128 385          390          395          400
131 Gln Gln Asp Cys Thr Asn Ser Ser Gln Pro His Phe Trp Thr Ser Ala
132          405          410          415
135 Ser Glu Gly Pro Ser Arg Cys Pro Ala Met Thr Val Leu Pro Ser Glu
136          420          425          430
139 Ile Asp Val His Arg Asp Tyr Thr Gly Met Ile Leu Gln Ile Ser Gly
140          435          440          445
143 Ser Leu Pro Ser Leu Ser Gly Met Glu Met Ala Cys Asp Tyr Gly Asn
144          450          455          460
147 Gly Val Arg Thr Val Ala Arg Val Pro Gly Pro Ala Tyr Asp His Gln
148 465          470          475          480
151 Ile Ala Tyr Cys Asn Leu Leu Pro Arg Ala Gln Phe Pro Ser Phe Pro
152          485          490          495
155 Ala Gly Gln Asp His Val Thr Val Glu Met Ser Val Arg Val Lys Gly
156          500          505          510
159 His Asn Ile Val Ser Ala Asn Phe Thr Ile Tyr Asp Cys Ser Arg Ile
160          515          520          525
163 Gly Gln Val Tyr Pro His Thr Ala Cys Thr Ser Cys Leu Ser Thr Gln
164          530          535          540
167 Trp Pro Cys Ser Trp Cys Ile Gln Leu His Ser Cys Val Ser Asn Gln
168 545          550          555          560
171 Ser Gln Cys Gln Asp Ser Pro Asn Pro Thr Ser Pro Gln Asp Cys Pro
172          565          570          575
175 Gln Ile Leu Pro Ser Pro Leu Ala Pro Val Pro Thr Gly Gly Ser Gln
176          580          585          590

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179 Asp Ile Leu Val Pro Leu Thr Lys Ala Thr Phe Phe His Gly Ser Ser
180          595          600          605
183 Leu Glu Cys Ser Phe Gly Leu Glu Glu Ser Phe Glu Ala Val Trp Ala
184      610          615          620
187 Asn Asn Ser Leu Val Arg Cys Asn Gln Val Val Leu His Thr Thr Gln
188 625          630          635          640
191 Lys Ser Gln Val Phe Pro Leu Ser Leu Lys Leu Lys Gly Pro Pro Asp
192          645          650          655
195 Arg Phe Leu Asp Ser Pro Asn Pro Met Thr Val Val Val Tyr Asn Cys
196          660          665          670
199 Ala Met Gly Ser Pro Asp Cys Ser Gln Cys Leu Gly Arg Glu Asp Leu
200      675          680          685
203 Gly His Leu Cys Val Trp Asn Asp Gly Cys Arg Leu Arg Gly Pro Leu
204      690          695          700
207 Gln Pro Leu Pro Gly Thr Cys Pro Ala Pro Glu Ile Arg Ala Ile Glu
208 705          710          715          720
211 Pro Leu Ser Gly Pro Leu Asp Gly Gly Thr Leu Leu Thr Ile Arg Gly
212          725          730          735
215 Arg Asn Leu Gly Arg Arg Leu Ser Asp Val Ala His Gly Val Trp Ile
216          740          745          750
219 Gly Ser Val Ala Cys Glu Pro Leu Ala Asp Arg Tyr Thr Val Ser Glu
220          755          760          765
223 Glu Ile Val Cys Ala Thr Gly Pro Ala Ala Gly Ala Phe Ser Asp Val
224      770          775          780
227 Val Thr Val Asn Val Ser Lys Glu Gly Arg Ser Arg Glu Gln Phe Ser
228 785          790          795          800
231 Tyr Val Leu Pro Thr Val His Ser Leu Glu Pro Ser Met Gly Pro Lys
232          805          810          815
235 Ala Gly Gly Thr Arg Ile Thr Ile His Gly Ser Asp Leu Asn Val Gly
236          820          825          830
239 Ser Met Leu Gln Val Leu Val Asn Asp Thr Asp Pro Cys Thr Asp Leu
240      835          840          845
243 Thr Arg Thr Ala Thr Ser Ile Thr Cys Thr Val Pro Gly Gly Thr Leu
244      850          855          860
247 Pro Ser Pro Val Pro Val Cys Val Arg Phe Glu Ser Arg Gly Cys Val
248 865          870          875          880
251 His Gly Asn Leu Thr Phe Trp Tyr Met Gln Asn Pro Val Ile Thr Ala
252          885          890          895
255 Ile Ser Pro Gly Arg Ser Pro Val Ser Gly Gly Arg Thr Ile Thr Val
256          900          905          910
259 Ala Gly Glu Arg Phe His Met Val Gln Asn Val Ser Met Ala Val His
260      915          920          925
263 His Ile Gly Arg Glu Pro Thr Phe Cys Lys Val Leu Asn Ser Thr Leu
264      930          935          940
267 Ile Thr Cys Pro Ser Pro Gly Ala Leu Ser Asn Ala Ser Ala Pro Val
268 945          950          955          960
271 Asp Phe Phe Ile Asn Gly Arg Ala Tyr Ala Asp Glu Ala Ala Glu Glu
272          965          970          975
275 Leu Leu Asp Pro Ala Glu Ala Gln Arg Gly Ser Arg Phe Arg Leu Asp

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276		980		985		990
279	Tyr Leu Pro Asn Pro Gln Phe Ser	Thr Ala Lys Arg Glu	Lys Trp Ile			
280		995		1000		1005
283	Lys His His Pro Gly Glu Pro	Leu Thr Leu Val Ile	His Lys Glu			
284	1010		1015		1020	
287	Gln Asp Ser Leu Gly Leu Glu	Ser His Glu Tyr His	Ile Lys Ile			
288	1025		1030		1035	
291	Gly Gln Val Ser Cys Asp Ile	Gln Ile Ile Ser Asp	Arg Val Ile			
292	1040		1045		1050	
295	His Cys Ser Val Asn Glu Ser	Leu Gly Thr Ala Glu	Gly Gln Leu			
296	1055		1060		1065	
299	Pro Ile Thr Ile Gln Val Gly	Asn Phe Asn Gln Thr	Ile Ala Thr			
300	1070		1075		1080	
303	Leu Gln Leu Gly Gly Ser Glu	Thr Ala Ile Val Val	Ser Ile Val			
304	1085		1090		1095	
307	Ile Cys Ser Val Leu Leu Leu	Leu Ser Val Val Ala	Leu Phe Val			
308	1100		1105		1110	
311	Phe Cys Thr Lys Ser Arg Arg	Ala Glu Arg Tyr Trp	Gln Lys Thr			
312	1115		1120		1125	
315	Leu Leu Gln Met Glu Glu Met	Glu Ser Gln Ile Arg	Glu Glu Ile			
316	1130		1135		1140	
319	Arg Lys Gly Phe Ala Glu Leu	Gln Thr Asp Met Thr	Asp Leu Thr			
320	1145		1150		1155	
323	Lys Glu Leu Asn Arg Ser Gln	Gly Ile Pro Phe Leu	Glu Tyr Lys			
324	1160		1165		1170	
327	His Phe Val Thr Arg Thr Phe	Phe Pro Lys Cys Ser	Ser Leu Tyr			
328	1175		1180		1185	
331	Glu Glu Arg Tyr Val Leu Pro	Ser Lys Thr Leu Asn	Ser Gln Gly			
332	1190		1195		1200	
335	Gly Ser Pro Pro Gln Glu Thr	His Pro Leu Leu Gly	Glu Trp Asn			
336	1205		1210		1215	
339	Ile Pro Glu His Cys Arg Pro	Ser Met Glu Glu Gly	Ile Ser Leu			
340	1220		1225		1230	
343	Phe Ser Ser Leu Leu Asn Asn	Lys His Phe Leu Ile	Val Phe Val			
344	1235		1240		1245	
347	His Ala Leu Glu Gln Gln Lys	Asp Phe Ala Val Arg	Asp Arg Cys			
348	1250		1255		1260	
351	Ser Leu Ala Ser Leu Leu Thr	Ile Ala Leu His Gly	Lys Leu Glu			
352	1265		1270		1275	
355	Tyr Tyr Thr Ser Ile Met Lys	Glu Leu Leu Val Asp	Leu Ile Asp			
356	1280		1285		1290	
359	Ala Ser Ala Ala Lys Asn Pro	Lys Leu Met Leu Arg	Arg Thr Glu			
360	1295		1300		1305	
363	Ser Val Val Glu Lys Met Leu	Thr Asn Trp Met Ser	Ile Cys Met			
364	1310		1315		1320	
367	Tyr Gly Cys Leu Arg Glu Thr	Val Gly Glu Pro Phe	Phe Leu Leu			
368	1325		1330		1335	
371	Leu Cys Ala Ile Lys Gln Gln	Ile Asn Lys Gly Ser	Ile Asp Ala			
372	1340		1345		1350	

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375 Ile Thr Gly Lys Ala Arg Tyr Thr Leu Asn Glu Glu Trp Leu Leu
376      1355      1360      1365
379 Arg Glu Asn Ile Glu Ala Lys Pro Arg Asn Leu Asn Val Ser Phe
380      1370      1375      1380
383 Gln Gly Cys Gly Met Asp Ser Leu Ser Val Arg Ala Met Asp Thr
384      1385      1390      1395
387 Asp Thr Leu Thr Gln Val Lys Glu Lys Ile Leu Glu Ala Phe Cys
388      1400      1405      1410
391 Lys Asn Val Pro Tyr Ser Gln Trp Pro Arg Ala Glu Asp Val Asp
392      1415      1420      1425
395 Leu Glu Trp Phe Ala Ser Ser Thr Gln Ser Tyr Val Leu Arg Asp
396      1430      1435      1440
399 Leu Asp Asp Thr Ser Val Val Glu Asp Gly Arg Lys Lys Leu Asn
400      1445      1450      1455
403 Thr Leu Ala His Tyr Lys Ile Pro Glu Gly Ala Ser Leu Ala Met
404      1460      1465      1470
407 Ser Leu Thr Asp Lys Lys Asp Ser Thr Leu Gly Arg Val Lys Asp
408      1475      1480      1485
411 Leu Asp Thr Glu Lys Tyr Phe His Leu Val Leu Pro Thr Asp Glu
412      1490      1495      1500
415 Leu Val Glu Pro Lys Lys Ser His Arg Gln Ser His Arg Lys Lys
416      1505      1510      1515
419 Val Leu Pro Glu Ile Tyr Leu Thr Arg Leu Leu Ser Thr Lys Gly
420      1520      1525      1530
423 Thr Leu Gln Lys Phe Leu Asp Asp Leu Phe Lys Ala Ile Leu Ser
424      1535      1540      1545
427 Ile Arg Glu Asp Lys Pro Pro Leu Ala Val Lys Tyr Phe Phe Asp
428      1550      1555      1560
431 Phe Leu Glu Glu Gln Ala Glu Lys Arg Gly Ile Ser Asp Pro Asp
432      1565      1570      1575
435 Thr Leu His Ile Trp Lys Thr Asn Ser Leu Pro Leu Arg Phe Trp
436      1580      1585      1590
439 Val Asn Ile Leu Lys Asn Pro Gln Phe Val Phe Asp Ile Glu Lys
440      1595      1600      1605
443 Thr Asp His Ile Asp Ala Cys Leu Ser Val Ile Ala Gln Ala Phe
444      1610      1615      1620
447 Ile Asp Ala Cys Ser Ile Ser Asp Leu Gln Leu Gly Lys Asp Ser
448      1625      1630      1635
451 Pro Thr Asn Lys Leu Leu Tyr Ala Lys Glu Ile Pro Glu Tyr Arg
452      1640      1645      1650
455 Lys Thr Val Gln Arg Tyr Tyr Lys Gln Ile Gln Asp Met Thr Pro
456      1655      1660      1665
459 Leu Ser Glu Gln Glu Met Asn Ala His Leu Ala Glu Glu Ser Arg
460      1670      1675      1680
463 Lys Tyr Gln Asn Glu Phe Asn Thr Asn Val Ala Met Ala Glu Ile
464      1685      1690      1695
467 Tyr Lys Tyr Ala Lys Arg Tyr Arg Pro Gln Ile Met Ala Ala Leu
468      1700      1705      1710
471 Glu Ala Asn Pro Thr Ala Arg Arg Thr Gln Leu Gln His Lys Phe

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